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# NOTICE OF ALLOWANCE AND FEE(S) DUE

21186

7590

02/12/2009

SCHWEGMAN, LUNDBERG & WOESSNER, P.A. P.O. BOX 2938
MINNEAPOLIS, MN 55402

EXAMINER

WHIPPLE, BRIAN P

ART UNIT PAPER NUMBER

2452

DATE MAILED: 02/12/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,324	12/12/2003	David L. Graumann	884.070US2	1376

TITLE OF INVENTION: ESTABLISHING OPTIMAL LATENCY IN STREAMING DATA APPLICATIONS THAT USE DATA PACKETS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/12/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further of indicated unless corrected maintenance fee notificated to the control of the contro	correspondence includir d below or directed oth	ig the Patent, advance of the lerwise in Block 1, by (a	rders and notification of n a) specifying a new corres	naintenance fees w pondence address;	rill be and/or	mailed to the current (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDE	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Fee(	s) Transmittal. Thi	s certif Lpaper	icate cannot be used f	or domestic mailings of the for any other accompanying to r formal drawing, must
21186 7590 02/12/2009 SCHWEGMAN, LUNDBERG & WOESSNER, P.A. P.O. BOX 2938 MINNEAPOLIS, MN 55402				Cer	tificate	of Mailing or Trans	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/734,324 FITLE OF INVENTION:	12/12/2003 ESTABLISHING OPT	IMAL LATENCY IN ST	David L. Graumann REAMING DATA APPLI	CATIONS THAT	USE D	884.070US2 ATA PACKETS	1376
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	05/12/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
WHIPPLE,	BRIAN P	2452	709-232000	ļ			
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME AT PLEASE NOTE: Unlo	ondence address (or Cha k/122) attached. cation (or "Fee Address' 2 or more recent) attach ND RESIDENCE DATA ess an assignee is identi	nge of Correspondence  ' Indication form ed. Use of a Customer  A TO BE PRINTED ON T	2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attorney isted, no name will be THE PATENT (print or type data will appear on the part of t	3 registered patenticly, e firm (having as a tigent) and the namerneys or agents. If in printed.  be) atent. If an assign	memb es of u	er a 2 p to le is 3	ocument has been filed for
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a. Applicant claims	cus (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no long				
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than t Office.	he applicant; a regi	stered a	attorney or agent; or th	ne assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration No			
This collection of informa an application. Confident submitting the completed his form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	iality is governed by 35 application form to the ons for reducing this builting in 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th O NOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 r idual case. Any co rr, U.S. Patent and D'THIS ADDRESS	ne publ ninutes mment Traden . SENI	ic which is to file (and to complete, including s on the amount of tin nark Office, U.S. Depa O TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/734,324	12/12/2003 David L. Graumann		884.070US2	1376	
21186 7:	590 02/12/2009		EXAM	INER	
SCHWEGMAN, LUNDBERG & WOESSNER, P.A. P.O. BOX 2938 MINNEAPOLIS, MN 55402			WHIPPLE, BRIAN P		
			ART UNIT	PAPER NUMBER	
			2452		
			DATE MAILED: 02/12/2009		

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 952 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 952 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/734,324	GRAUMANN ET AL.
Notice of Allowability	Examiner	Art Unit
	BRIAN P. WHIPPLE	2452
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	ears on the cover sheet wit (OR REMAINS) CLOSED in ) or other appropriate commu	h the correspondence address this application. If not included nication will be mailed in due course. THIS
of the Office or upon petition by the applicant. See 37 CFR 1.31:	3 and MPEP 1308.	•
1. This communication is responsive to the amendment filed	<u>11/12/2008</u> .	
2. X The allowed claim(s) is/are <u>1,2,4-13,15-28,30-38,40 and 4</u>	<u>11</u> .	
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority u</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>		or (f).
2.   Certified copies of the priority documents have	e been received in Application	n No
3.   Copies of the certified copies of the priority do	cuments have been received	I in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv		
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	st be submitted.	
(a) ☐ including changes required by the Notice of Draftsper	son's Patent Drawing Review	v ( PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	='	
<ul><li>(b) ☐ including changes required by the attached Examiner</li><li>Paper No./Mail Date</li></ul>	s Amendment / Comment or	in the Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIC	ERIAL must be submitted. Note the DLOGICAL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 □ Notice of Inf	formal Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	<u> </u>	ımmary (PTO-413),
<ul><li>3. ☐ Information Disclosure Statements (PTO/SB/08),</li></ul>	Paper No./I	Mail Date Amendment/Comment
Paper No./Mail Date4.   Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's :	Statement of Reasons for Allowance
of Biological Material	 9.	
/Kenny S Lin/		
Primary Examiner, Art Unit 2452		

Application/Control Number: 10/734,324 Page 2

Art Unit: 2452

#### **REASONS FOR ALLOWANCE**

1. Claims 1-2, 4-13, 15-28, 30-38, and 40-41 are pending in this application and presented for examination.

2. The following is an examiner's statement of reasons for allowance: the prior art fails to disclose or reasonably suggest the claimed invention, with particular emphasis on a playback queuing mechanism to first process the received data packets from the network to provide the received data packets to the under-run forecasting mechanism and to build latency in the supply of received data packets based on the under-run predicted time and the measured fluctuations in arrival of data packets, wherein the client is separated from the server by the network such that generation of the under-run predicted time, measurement of the fluctuations, and building of the latency are based on received data packets from the network in the client.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Art Unit: 2452

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See the Notice of References Cited (PTO-892).
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRIAN P. WHIPPLE whose telephone number is (571)270-1244. The examiner can normally be reached on Mon-Fri (9:30 AM to 6:00 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 2452

Brian P. Whipple /B. P. W./ Examiner, Art Unit 2452 2/6/09

/Kenny S Lin/ Primary Examiner, Art Unit 2452